Model "LVP700-90-12"

LVP Series broadband four dipole phased array in a sector panel covering the 698-806 MHz spectrum. The LVP is a phased array and, as such, produces a very high front-to-back ratio of 40dB total. This enables the LVP series to be mounted in close proximity to other LVP sectors on the same tower while using adjacent channels, or even the same channels within the band on adjacent sectors. Like all PAM 700 MHz antennas, the LVP series has low PIM and excellent side lobe suppression.

The radome covering the array and internal feed conductors allow this antenna to operate reliably under extreme snow, rain, frost, or icing conditions. Each panel is rated for 500 watts of input power and multiple bays can be stacked horizontally or vertically to satisfy required gain or coverage.

698-806 MHz
700 MHz

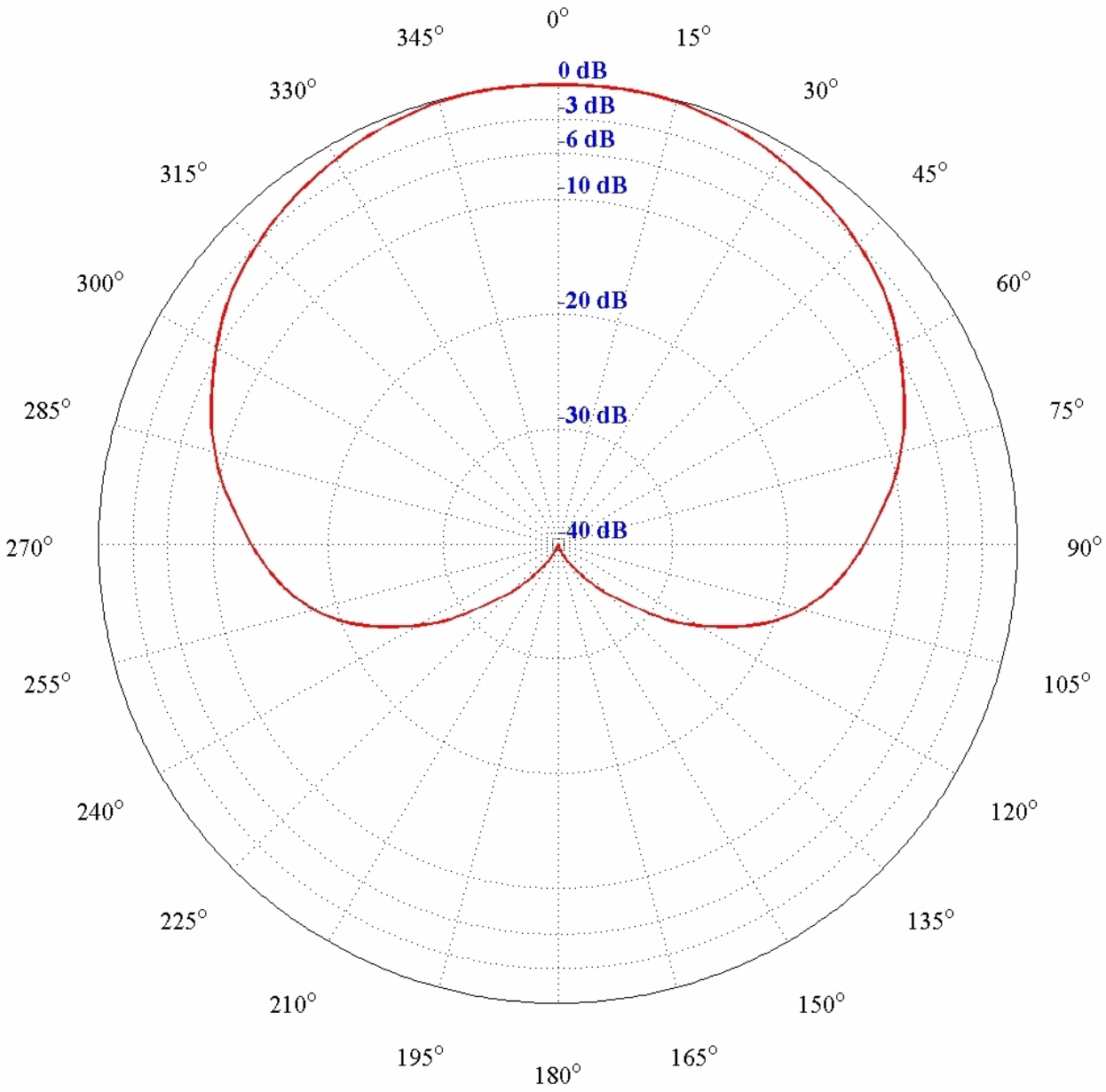
Electrical

Frequency:	698-806 MHz
Gain:	12.0 dBd (14.1 dBi) w/o electrical beam tilt
Azimuth Beam width:	90 degrees (-3dB pts)
Elevation Beam width:	15 degrees (-3dB pts)
Impedance:	50 ohms
VSWR:	<1.35:1
Polarization:	Vertical
Max. Input Power:	500W standard, higher input power available
PIM:	< -150 dBc (2 x 20w)
Input Connector:	N female
F/B Ratio:	40 dB
XPD:	22 dB typical
Beam tilt:	Any degree of mechanical available

Mechanical

Weight:	10 lbs (without mounting hardware)
Mounting:	Hot dipped galvanized steel, customized to tower spec or standard pipe OD
Radiating Elements:	Machined Brass
Reflector:	Aluminum
Radome:	UV stabilized ASA
Grounding:	Antenna and radiating elements are fully DC grounded via the mounting hardware for lightning protection.
Dimensions:	48.5" x 6.25" x 9.5" deep (1232mm X 159mm X 241mm deep)
Wind load:	360 N @ 160 km/h
Vertical Height Req'd:	1.2 m / 4.0 feet

Horizontal Plane – *LVP700-90-12*



Vertical Plane – *LVP700-90-12*